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October 15, 2008 264204.PC.80/MIPC.C220H

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Ms. Paula Bisson U.S. Environmental Protection Agency 75 Hawthorne Street, CMD-4-2 San Francisco, CA 94105

Subject: Site Characterization and Cleanup Action Summary Report for Polychlorinated

Biphenyl Sites Building 116 AL#01 and AL#02, Investigation Area C2, Lennar

Mare Island, Vallejo, California

Dear Ms. Bisson:

Enclosed is one copy of the Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Sites Building 116 AL#01 and AL#02, Investigation Area C2 for Mare Island, Vallejo, California.

CH2M HILL prepared this report in compliance with the Consent Agreement and Final Order (CA/FO) between the United States Environmental Protection Agency and the United States Department of the Navy, with the City of Vallejo and Lennar Mare Island as intervenors (USEPA et al. 2001). The CA/FO sets forth the polychlorinated biphenyl requirements that must be met to satisfy the Toxic Substances Control Act for the Eastern Early Transfer Parcel of Mare Island. This report is submitted in compliance with Paragraph 12 of the CA/FO.

Please submit your comments to me at the above address or via e-mail at <a href="mailto:stephen.farley@ch2m.com">stephen.farley@ch2m.com</a> by November 14, 2008. If you have any questions regarding this document, please contact me at 707/562-1015 extension 103 or Michael Sanchez at 530/229-3310.

Sincerely,

CH2M HILL

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Ms. Paula Bisson October 15, 2008 Page 3

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Prepared for

**United States Environmental Protection Agency** 

October 2008

CH2MHILL

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# **Acronyms and Abbreviations**

 $\mu g/100 \text{ cm}^2$ 

micrograms per 100 square centimeters

bgs

below ground surface

CA/FO

Consent Agreement and Final Order

**CERCLA** 

Comprehensive Environmental Response, Compensation, and

Liability Act of 1980

LMI

Lennar Mare Island, LLC

mg/kg

milligrams per kilogram

Navy

United States Department of the Navy

**NFA** 

no further action

Notification

"Notification Regarding Self-implementing On-site Cleanup and  $\,$ 

Disposal of Polychlorinated Biphenyl Remediation Waste at PCB Sites Building 116 AL#01 and AL#02 in Investigation Area C2, Eastern Early Transfer Parcel, Lennar Mare Island, Vallejo,

California"

PCB

polychlorinated biphenyl

**SSPORTS** 

Supervisor of Shipbuilding, Conversion and Repair, Portsmouth,

Virginia, Environmental Detachment

**TSCA** 

Toxic Substances Control Act

**TtEMI** 

Tetra Tech Environmental Management, Inc.

**TWD** 

**Technical Work Document** 

**USEPA** 

United States Environmental Protection Agency

#### 1.0 Introduction

This report summarizes the polychlorinated biphenyl (PCB) cleanup actions performed by CH2M HILL at PCB Sites Building 116 AL#01 and AL#02, in Investigation Area C2 of Lennar Mare Island, LLC's (LMI's), Eastern Early Transfer Parcel. CH2M HILL prepared this summary report to comply with the Consent Agreement and Final Order (CA/FO) between the United States Environmental Protection Agency (USEPA) and the United States Department of the Navy (Navy), with the City of Vallejo and LMI as intervenors (USEPA et al. 2001). The CA/FO sets forth the PCB-related requirements that must be met to satisfy the Toxic Substances Control Act (TSCA) for LMI's Eastern Early Transfer Parcel. Pursuant to Paragraph 6(a) of the CA/FO, this report demonstrates that no further action (NFA) is necessary, under TSCA, at PCB Sites Building 116 AL#01 and AL#02, which were part of the transformer room formerly attached to Building 116.

CH2M HILL's cleanup actions at PCB Sites Building 116 AL#01 and AL#02 consisted of demolishing the former transformer room and excavating the underlying soil. These cleanup actions were conducted in accordance with Paragraph 12 of the CA/FO and the TSCA regulations in Title 40 of the Code of Federal Regulations, Part 761.61(a). These cleanup actions were implemented in accordance with the USEPA-approved "Notification Regarding Self-implementing On-site Cleanup and Disposal of Polychlorinated Biphenyl Remediation Waste at PCB Sites Building 116 AL#01 and AL#02 in Investigation Area C2, Eastern Early Transfer Parcel, Lennar Mare Island, Vallejo, California" (Notification) (CH2M HILL 2007; USEPA 2007). The remaining total PCB concentrations at PCB Sites Building 116 AL#01 and AL#02 meet the TSCA closure criteria for high-occupancy areas.

This document is organized into the following sections:

- Section 1.0 Introduction. Provides an introduction to this report.
- Section 2.0 Site Identification and Background. Provides site background and a description of previous sampling efforts.
- Section 3.0 Cleanup Action Summary. Provides a description of CH2M HILL's cleanup actions at PCB Sites Building 116 AL#01 and AL#02.
- Section 4.0 Polychlorinated Biphenyl Site Closure Process. Provides the rationale for site closure.
- Section 5.0 Conclusions. Provides conclusions for this report.
- Section 6.0 References. Provides references for documents used to prepare this report.

# 2.0 Site Identification and Background

Building 116 and the former transformer room are located west of Nimitz (formerly California) Avenue and Building 52, east of Railroad Avenue, north of Rickover Street, and south of Buildings 330 and 434, in Investigation Area C2. Figure 2-1 shows the locations of Building 116 and the former transformer room. Building 116 was built in 1905 and initially served as a production shop. The transformer room attached along the northern wall of Building 116 was used to house transformers associated with Building 116. The building and former transformer room are located in an area designated as the historic core of Mare Island. According to the *Preliminary Land Use Plan* (SWA Group 2000), the proposed future use for Building 116 is industrial. Although Building 116 is not scheduled for deconstruction, it was determined that the former transformer room (PCB Sites Building 116 AL#01 and AL#02) attached to Building 116 did not have the same historic significance and, therefore, could be deconstructed (Siler 2006, pers. comm.).

Two PCB sites associated with the Building 116 former transformer room are listed in the Consent Agreement for LMI's Eastern Early Transfer Parcel (LMI et al. 2001): AL#01 and AL#02. PCB Site Building 116 AL#01 includes the former transformer pad and northwestern wall of the former transformer room. PCB Site Building 116 AL#02 is the floor drain located in the former transformer room (Figure 2-2). Documentation of Navy PCB site assessment sampling, cleanup actions, and confirmation sampling for the two Building 116 PCB sites is contained in the *Final Basewide Polychlorinated Biphenyl Confirmation Sampling Summary Report* (Tetra Tech Environmental Management, Inc. [TtEMI] 1998), in the section for Parcel 04-B1.

The transformer room was a small structure, approximately 11 by 24 feet, attached to the outside, northwest wall of Building 116 (Figure 2-1). As part of the initial assessment at PCB Sites Building 116 AL#01 and AL#02, personnel from Supervisor of Shipbuilding, Conversion and Repair, Portsmouth, Virginia, Environmental Detachment (SSPORTS), collected six samples (6150-0154 through 6150-0159) on June 4, 1996, in stained areas of the concrete floor (Figure 2-2). PCBs were detected in four samples, at total concentrations of 119 (6150-0154), 4.0 (6150-0155), 788 (6150-0156), and 53,400 milligrams per kilogram (mg/kg) (6150-0157). PCB concentrations were below reporting limits in samples 6150-0158 (less than 1 mg/kg) and 6150-0159 (less than 5 mg/kg) (Table 2-1); however, collection locations for these two samples were not provided in historical documentation for the sites. Because PCBs were detected at concentrations ranging from 4 to 53,400 mg/kg in these six samples, SSPORTS issued TWD 96-1350 on October 23, 1996, to remove contamination in the former transformer room (SSPORTS 1996a).

Tables 2-1 and 2-2 summarize the results of previous sampling at PCB Sites Building 116 AL#01 and AL#02, respectively, including the sample (or boring) numbers, matrices, dates, and total PCB concentrations (or laboratory reporting limits if PCBs were not detected). Figure 2-2 shows the sampling locations and PCB concentrations prior to cleanup actions by SSPORTS and CH2M HILL at PCB Sites Building 116 AL#01 and AL#02. Figure 2-3 shows the sampling locations remaining after implementation of SSPORTS technical work

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documents (TWDs) and PCB concentrations prior to CH2M HILL's cleanup actions at PCB Sites Building 116 AL#01 and AL#02 (SSPORTS 1996a and 1998).

#### 2.1 PCB Site Building 116 AL#01

On February 13, 1997, before cleanup actions were performed, 28 solid floor and wall samples (7037-0064, 7037-0065, 7037-0067 through 7037-0069, 7037-0071 through 7037-0076, and 7037-0078 through 7037-0094) and 5 wipe samples (7307-0100 through 7307-0104) were collected from PCB Site Building 116 AL#01 (Figure 2-2) (SSPORTS 1996b). PCBs were detected in 27 solid samples, at concentrations ranging from 1.2 to 15,100 mg/kg (Table 2-1). PCBs were detected in four wipe samples, at concentrations ranging from 28 to 25,200 micrograms per 100 square centimeters (µg/100 cm²) (Table 2-1). Wipe sample locations and media were not provided with the historical data for this site. Eight additional samples (7135-0082 through 7135-0089) were collected from the walls and floor in PCB Site Building 116 AL#01 on June 10, 1997 (Figure 2-2). PCB concentrations ranged from 1.7 to 25 mg/kg in those samples (Table 2-1).

In July 1997, the Navy performed cleanup in accordance with TWD 96-1350 to remove the concrete floor of PCB Site Building 116 AL#01 (SSPORTS 1996b). The floor of the site was scabbled to specified depths according to PCB concentrations in samples collected before the TWD was issued, as follows:

- Area A, which contained sample locations 6150-0154 (119 mg/kg) and 6150-0155 (4 mg/kg), was scabbled to a depth of 0.25 inch below ground surface (bgs).
- Area B, which contained sample location 6150-0156 (788 mg/kg), was scabbled to 0.5 inch bgs.
- Area C, which contained sample location 6150-0157 (maximum concentration of 53,400 mg/kg), was scabbled to 0.75 inch bgs.
- Area D (sides of utility vault) was scabbled to 0.25 inch bgs in unstained areas and to 0.75 inch where stains were visible.

According to historical Navy documentation, two additional samples (6150-0158 and 6150-0159) were collected at PCB Sites Building 116 AL#01 and AL#02 prior to implementation of TWD 96-1350, but their locations were not provided (Figure 2-2). In addition, the Navy collected 36 solid (concrete) and 5 wipe (media unknown) samples at PCB Sites Building 116 AL#01 and AL#02 from the date TWD 96-1350 was issued to the date the TWD was implemented. PCB concentrations in these samples are shown in Table 2-1 and on Figure 2-2. Areas scabbled by the Navy during implementation of TWD 96-1350 are shown on Figure 2-2. In addition to scabbling, the Navy double-washed accessible conduit and metal support surfaces as high as 12 inches above the floor, utility vault cover plates, and steel rails with kerosene and rinsed them, in accordance with TWD 96-1350 (SSPORTS 1996a).

After TWD 96-1350 had been implemented, TtEMI personnel collected two confirmation samples at PCB Site Building 116 AL#01 on July 16, 1997 (Figure 2-2). Total PCBs were

reported at a concentration of 0.06J<sup>1</sup> mg/kg in sample PC1441, and at a concentration of 0.4J mg/kg in sample PC1442 (TtEMI 1998) (Table 2-1). Because of these results, PCB assessment and cleanup activities were considered complete (SSPORTS 1996b; TtEMI 1998).

On October 20, 2006, CH2M HILL conducted a soil boring investigation to evaluate the vertical extent of PCB contamination at PCB Site Building 116 AL#01. Three soil borings (B116AL01-GB0101, B116AL01-GB0103, and B116AL01-GB0106) were advanced at PCB Site Building 116 AL#01 to an approximate depth of 10 feet bgs and soil samples were collected from each boring at depths of 2, 4, 6, and 9 feet bgs (Figure 2-2). Boring B116AL01-GB0102 was advanced within the footprint of Building 116 AL#01 to an approximate depth of 4 feet bgs and samples were collected at depths of 2 and 4 feet bgs. The total PCB concentration in soil sample collected from boring B116AL01-GB0101 at 2 feet bgs was 0.051 mg/kg. The total PCB concentrations in the other soil samples collected from these borings were below reporting limits (which ranged from 0.0018 to 0.026 mg/kg). One composite sample was collected from concrete at boring locations B116AL01-GB0101 through B116AL01-GB0103 and B116AL01-GB0106. PCBs were detected at a total concentration of 1,000 mg/kg (Aroclor-1260) in this composite concrete sample (B116AL01-CH0107-CO).

#### 2.2 PCB Site Building 116 AL#02

On February 13, 1997, before performing cleanup activities at PCB Site Building 116 AL#02, SSPORTS personnel collected three samples (7037-0066, 7037-0070, and 7037-0077) from PCB Site Building 116 AL#02 (Figure 2-2). PCBs were detected at total concentrations of 2.2 mg/kg in sample 7037-0066, 2.5 mg/kg in sample 7037-0070, and 18 mg/kg in sample 7037-0077 (Table 2-2).

On June 9, 1997, SSPORTS personnel collected one wipe sample (7135-0055) from the floor drain at the northern end of PCB Site Building 116 AL#02 (SSPORTS 1996b). PCBs were detected at a concentration of  $69 \,\mu g/100 \, cm^2$  in that wipe sample, but the exact sample collection location was not identified in the historical documentation. Because PCB concentrations in sample 7135-0055 were above  $1 \,\mu g/100 \, cm^2$ , SSPORTS personnel issued TWD 96-1350, Revision A (SSPORTS 1998), which specified removing concrete within a 1-foot radius of the floor drain and excavating and removing the underlying crushed rock foundation and soil. Removal actions under TWD 96-1350, Revision A, were performed in January 1999. TWD 96-1350, Revision A, did not include cleanup goals for this removal action

In January 1999, three samples (9-0091, 9-0092, and 9-0102) were collected from PCB Site Building 116 AL#02 prior to removal of concrete, soil, and pipes under TWD 96-1350, Revision A (Figure 2-2). Laboratory reports for these samples indicated that sample 9-0091 was collected from sediment in the drain pipe (6.6 mg/kg), sample 9-0092 was collected from soil beneath the drain pipe (1.0 mg/kg), and sample 9-0102 was collected from the interior of the drain pipe (4.9 mg/kg). Sample locations have been estimated on Figure 2-2. The drain pipe and the overlying concrete were removed during the implementation of TWD 96-1350, Revision A, and disposed of off site (SSPORTS 1998).

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<sup>1&</sup>quot;J" indicates an estimated concentration.

TtEMI personnel collected two confirmation samples (PC7109 and PC7110) at PCB Site Building 116 AL#02 on February 19, 1999 (Figure 2-2). PCBs were detected at a total concentration of 0.2 mg/kg in sample PC7109, collected from soil beneath the former drain pipe. The total PCB concentration was 5 mg/kg in sample PC7110, composed of concrete collected from the surface of the remaining portion of the transformer pad, directly adjacent to the former drain location (TtEMI 1998) (Table 2-2).

On October 20, 2006, CH2M HILL conducted a soil boring investigation to evaluate the vertical extent of PCB contamination at PCB Site Building 116 AL#02. Two soil borings (B116AL01-GB0104 and B116AL01-GB0105) were advanced to approximately 10 feet bgs within the footprint of PCB Site Building 116 AL#02 and soil samples were collected at depths of 2, 4, 6, and 9 feet bgs (Figure 2-2). PCBs were detected in two samples from boring B116AL01-GB0104 at 2 feet bgs at a total concentration of 4.5 mg/kg and in one sample collected from boring B116AL01-GB0105 at 2 feet bgs at a total concentration of 0.23 mg/kg. Total PCB concentrations in other soil samples from these borings were below reporting limits (which ranged from 0.016 to 0.019 mg/kg) (Table 2-2).

TABLE 2-1
Previous Sample Results for PCB Site Building 116 AL#01
Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Sites Building 116 AL#01 and AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Sample or Boring Number	Depth (bgs)	Sample <u>M</u> atrix	Sample Date	Total PCB Concentration <sup>a</sup>	Comments
6150-0154	0	Concrete	06/04/96	119 mg/kg	Aroclor-1260 = 119 mg/kg; stain- specific sample; removed under TWD 96-1350
6150-0155	0	Concrete	06/04/96	4 mg/kg	Aroclor-1260 = 4 mg/kg; stain- specific sample; removed under TWD 96-1350
6150-0156	0	Concrete	06/04/96	788 mg/kg	Aroclor-1260 = 788 mg/kg; stain- specific sample; removed under TWD 96-1350
6150-0157	0	Concrete	06/04/96	53,400 mg/kg	Aroclor-1260 = 53,400 mg/kg; stain specific sample; removed under TWD 96-1350
6150-0158	0	Concrete	06/04/96	<1 mg/kg	Stain-specific sample; removed under TWD 96-1350
6150-0159	0	Gravel	06/04/96	<1 mg/kg	Stain-specific sample; removed under TWD 96-1350
7037-0064	0	Concrete	02/13/97	<1 mg/kg	Sample removed under TWD 96-1350
7037-0065	0	Concrete	02/13/97	4.6 mg/kg	Aroclor-1260 = 4.6 mg/kg; removed under TWD 96-1350
7037-0067	0	Concrete	02/13/97	1.2 mg/kg	Aroclor-1260 = 1.2 mg/kg; removed under TWD 96-1350
7037-0068	0	Concrete	02/13/97	2.5 mg/kg	Aroclor-1260 = 2.5 mg/kg; removed under TWD 96-1350
7037-0069	0	Concrete	02/13/97	11 mg/kg	Aroclor-1260 = 11 mg/kg; removed under TWD 96-1350
7037-0071	0	Concrete	02/13/97	2.1 mg/kg	Wall sample; Aroclor-1260 = 2.1 mg/kg
7037-0072	0	Concrete	02/13/97	1.9 mg/kg	Wall sample; Aroclor-1260 = 1.9 mg/kg
7037-0073	0	Concrete	02/13/97	82 mg/kg	Aroclor-1260 = 82 mg/kg; removed under TWD 96-1350
7037-0074	0	Concrete	02/13/97	68 mg/kg	Aroclor-1260 = 68 mg/kg; removed under TWD 96-1350
7037-0075	0	Concrete	02/13/97	24 mg/kg	Aroclor-1260 = 24 mg/kg; removed under TWD 96-1350
7037-0076	0	Concrete	02/13/97	6.8 mg/kg	Arodor-1260 = 6.8 mg/kg; removed under TWD 96-1350
7037-0078	37-0078 0 Concrete 02/13/97 35 r		35 mg/kg	Wall sample; Aroclor-1260 = 35 mg/kg	
7037-0079	7-0079 0 Concrete 02/13/97 41 mg/kg		41 mg/kg	Wall sample; Aroclor-1260 = 41 mg/kg	
7037-0080	7-0080 0 Concrete 02/13/97 21 mg/k		21 mg/kg	Wall sample; Aroclor-1260 = 21 mg/kg	
7037-0081	0	Concrete .	02/13/97	620 mg/kg	Wall sample; Aroclor-1260 = 620 mg/kg

TABLE 2-1
Previous Sample Results for PCB Site Building 116 AL#01
Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Sites Building 116 AL#01 and AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Sample or Boring Number	Depth (bgs)	Sample Matrix	Sample Date	Total PCB Concentration <sup>a</sup>	Comments
7037-0082	0	Concrete	02/13/97	620 mg/kg	Aroclor-1260 = 620 mg/kg; removed under TWD 96-1350
7037-0083	0	Concrete	02/13/97	99 mg/kg	Aroclor-1260 = 99 mg/kg; removed under TWD 96-1350
7037-0084	0	Concrete	02/13/97	670 mg/kg	Aroclor-1260 = 670 mg/kg; removed under TWD 96-1350
7037-0085	0	Concrete	02/13/97	15,100 mg/kg	Aroclor-1260 = 15,100 mg/kg; removed under TWD 96-1350
7037-0086	0	Concrete	02/13/97	7,600 mg/kg	Aroclor-1260 = 7,600 mg/kg; removed under TWD 96-1350
7037-0087	. 0	Concrete	02/13/97	6,400 mg/kg	Aroclor-1260 = 6,400 mg/kg; removed under TWD 96-1350
7037-0088	0	Concrete	02/13/97	11,200 mg/kg	Aroclor-1260 = 11,200 mg/kg; removed under TWD 96-1350
7037-0089	0 .	Concrete	02/13/97	10,000 mg/kg	Aroclor-1260 = 10,000 mg/kg; Sample removed under TWD 96-1350
7037-0090	0	Concrete	02/13/97	11,400 mg/kg	Aroclor-1260 = 11,400 mg/kg; removed under TWD 96-1350
7037-0091	0	Concrete	02/13/97	204 mg/kg	Aroclor-1260 = 204 mg/kg; removed under TWD 96-1350
7037-0092	0	Concrete	02/13/97	1,230 mg/kg	Aroclor-1260 = 1,230 mg/kg; removed under TWD 96-1350
7037-0093	0	Concrete	02/13/97	7,000 mg/kg	Wall sample; Aroclor-1260 = 7,000 mg/kg
7037-0094	0	Concrete	02/13/97	3.8 mg/kg	Aroclor-1260 = 3.8 mg/kg; removed under TWD 96-1350
7037-0100	0	Unknown	02/13/97	25,200 μg/100 cm	Aroclor-1260 = 25,200 μg/100 cm <sup>2</sup>
7037-0101	0	Unknown	02/13/97	190 µg/100 cm²	Aroclor-1260 = 190 μg/100 cm <sup>2</sup>
7037-0102	0	Unknown	02/13/97	2,450 µg/100 cm²	Aroclor-1260 = 2,450 μg/100 cm²
7037-0103	0	Unknown	02/13/97	28 µg/100 cm²	Aroclor-1260 = 28 μg/100 cm <sup>2</sup>
7037-0104	0	Unknown	02/13/97	<1 µg/100 cm²	
7135-0082	0	Concrete	06/10/97	13 mg/kg	Wall sample; Aroclor-1260 = 13 mg/kg
7135-0083	0 .	Concrete	06/10/97	2.6 mg/kg	Wall sample; Aroclor-1260 = 2.6 mg/kg
7135-0084	0	Concrete	06/10/97	1.7 mg/kg	Wall sample; Aroclor-1260 = 1.7 mg/kg
7135-0085	0	Concrete	06/10/97	3.5 mg/kg	Wall sample; Aroclor-1260 = 3.5 mg/kg
7135-0086	0	Concrete	06/10/97	7.6 mg/kg	Trench sample; Aroclor-1260 = 7.6 mg/kg
7135-0087	<b>0</b>	Concrete	06/10/97	25 mg/kg	Trench sample; Aroclor-1260 = 25 mg/kg

TABLE 2-1
Previous Sample Results for PCB Site Building 116 AL#01

Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Sites Building 116 AL#01 and AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Sample or Boring Number	Depth (bgs)	Sample Matrix	Sample Date	Total PCB Concentration <sup>a</sup>	Comments
7135-0088	0	Concrete	06/10/97	2.3 mg/kg	Wall sample; Aroclor-1260 = 2.3 mg/kg
7135-0089	0	Concrete	06/10/97	2.0 mg/kg	Wall sample; Aroclor-1260 = 2.0 mg/kg
PC1441	. 0	Concrete	07/16/97	0.06J mg/kg	Aroclor-1260 = 0.06J mg/kg; TWD 96-1350 confirmation sample
PC1442	0	Concrete	07/16/97	0.4J mg/kg	Aroclor-1260 = 0.4J mg/kg; TWD 96-1350 confirmation sample
B116AL01-GB0101	2	Soil	10/20/06	0.051 mg/kg	Arcolor-1260 = 0.051 mg/kg
B116AL01-GB0101	4	Soil	10/20/06	<0.017 mg/kg	Proxy value used for Arcolor-1260 0.017 mg/kg
B116AL01-GB0101	6	Soil	10/20/06	<0.024 mg/kg	Proxy value used for Arcolor-1260 0.024 mg/kg
B116AL01-GB0101	9	Soil	10/20/06	<0.0018 mg/kg	Proxy value used for Arcolor-1260 0.0018 mg/kg
B116AL01-GB0102	2	Soil 🔩	10/20/06	<0.018 mg/kg	Proxy value used for Arcolor-1260 0.018 mg/kg
B116AL01-GB0102	4	Soil	10/20/06	<0.019 mg/kg	Proxy value used for Arcolor-1260 0.019 mg/kg
B116AL01-GB0103	2	Soil	10/20/06	<0.016 mg/kg	Proxy value used for Arcolor-1260 0.016 mg/kg
B116AL01-GB0103	4	Soil	10/20/06	<0.019 mg/kg	Proxy value used for Arcolor-1260 0.019 mg/kg
B116AL01-GB0103	6	Soil	10/20/06	<0.019 mg/kg	Proxy value used for Arcolor-1260 0.019 mg/kg
B116AL01-GB0103	9	Soil	10/20/06	<0.026 mg/kg	Proxy value used for Arcolor-1260 0.026 mg/kg
B116AL01-GB0106	2	Soil	10/20/06	<0.019 mg/kg	Proxy value used for Arcolor-1260 0.019 mg/kg
B116AL01-GB0106	4	Soil	10/20/06	<0.02 mg/kg	Proxy value used for Arcolor-1260 0.02 mg/kg
B116AL01-GB0106	3116AL01-GB0106 6		10/20/06	<0.018 mg/kg	Proxy value used for Arcolor-1260 0.018 mg/kg
B116AL01-GB0106	9	Soil	10/20/06	<0.017 mg/kg	Proxy value used for Arcolor-1260 0.017 mg/kg
B116AL01-CH0107	0	Concrete	10/20/06	1,000 mg/kg	Composite sample; Arcolor-1260 = 1,000 mg/kg

<sup>&</sup>lt;sup>a</sup>For samples collected by CH2M HILL, total PCBs are calculated by summing all of the detected Aroclors or by using a proxy value of one-half the method detection limit for historically detected Aroclors and adding this to detected Aroclors.

#### Notes:

Sample numbers beginning with PC were collected by TtEMI. Sample numbers beginning with B were collected by CH2M HILL. Other samples were collected by SSPORTS.

Samples collected by TtEMI were reported to one significant figure.

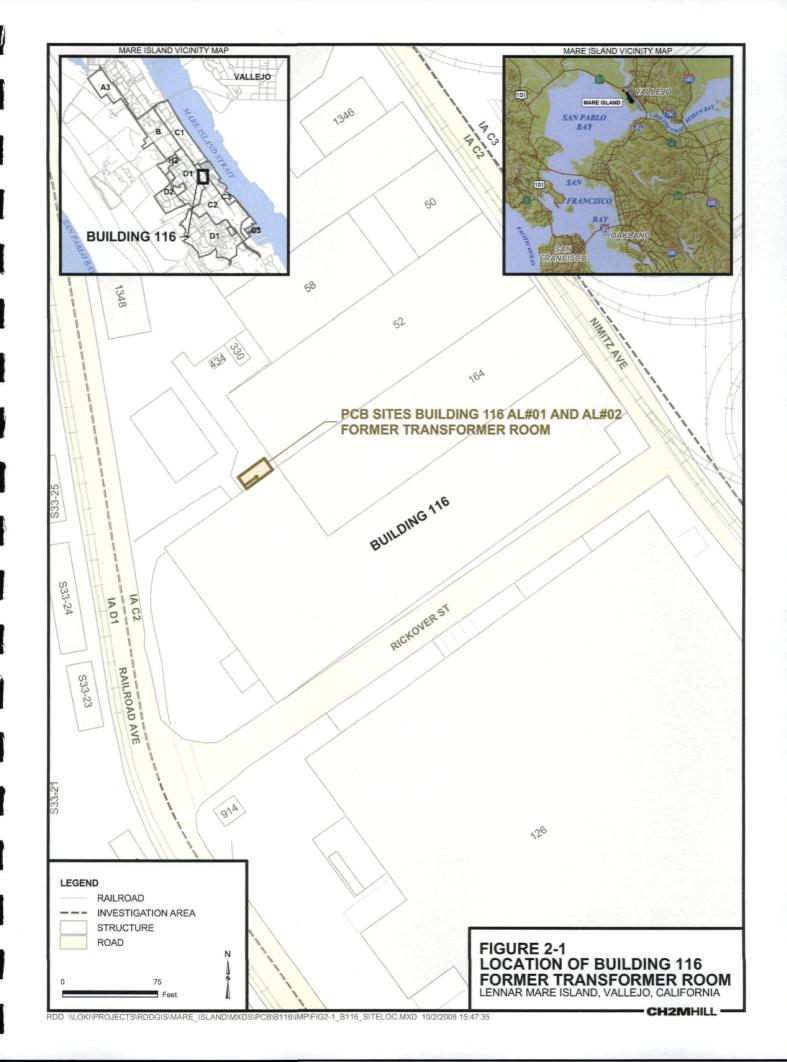
TABLE 2-2
Previous Sample Results for PCB Site Building 116 AL#02
Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Sites Building 116 AL#01 and AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

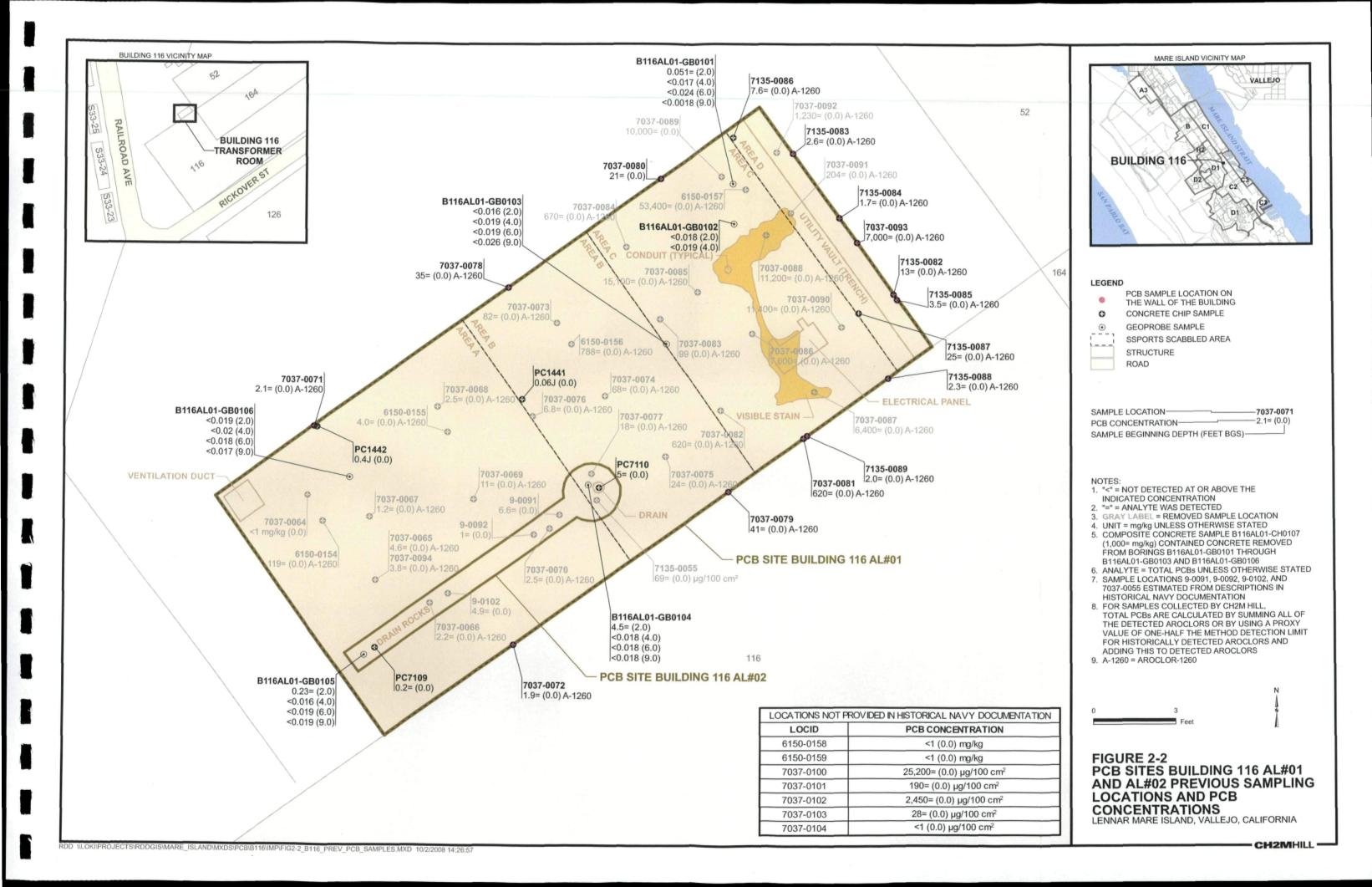
Sample or Boring Number	Depth (bgs)	Sample Matrix	Sample Date	Total PCB Concentration <sup>a</sup>	Comments
7037-0066	0	Concrete	02/13/97	2.2 mg/kg	Aroclor-1260 = 2.2 mg/kg; removed under TWD 96-1350, Revision A
7037-0070	. 0	Concrete	02/13/97	2.5 mg/kg	Aroclor-1260 = 2.5 mg/kg
7037-0077	0	Concrete	02/13/97	18 mg/kg	Aroclor-1260 = 18 mg/kg; removed under TWD 96-1350, Revision A
7135-0055	0	Steel	06/09/97	69 μg/100 cm²	Aroclor-1260 = 69 µg/100 cm <sup>2</sup> ; removed under TWD 96-1350, Revision A
9-0091	0	Sediment	01/21/99	6.6 mg/kg	Aroclor-1260 = 6.6 mg/kg; removed under TWD 96-1350, Revision A; sediment in drain pipe
9-0092	0	Soil	01/21/99	1 mg/kg	Aroclor-1260 = 1.0 mg/kg; removed under TWD 96-1350, Revision A; soil beneath drain pipe
9-0102	0	Solid	01/25/99	4.9 mg/kg	Aroclor-1260 = 4.9 mg/kg; sample removed under TWD 96-1350, Revision A; solid from drain pipe interior
PC7109	0	Soil	02/19/99	0.2 mg/kg	Aroclor-1260 = 0.2 mg/kg; TtEMI confirmation sample
PC7110	0	Concrete	. 02/19/99	5 mg/kg	Aroclor-1260 = 5 mg/kg; TtEMI confirmation sample
B116AL01-GB0104-	2	Soil	10/20/06	4.5 mg/kg	Arcolor-1260 = 4.5 mg/kg
B116AL01-GB0104-	4	Soil	10/20/06	<0.018 mg/kg	Proxy value used for Arcolor-1260 0.018 mg/kg
B116AL01-GB0104-	6	Soil	10/20/06	<0.018 mg/kg	Proxy value used for Arcolor-1260 0.018 mg/kg
B116AL01-GB0104-	9	Soil	10/20/06	<0.018 mg/kg	Proxy value used for Arcolor-1260 0.018 mg/kg
B116AL01-GB0105-S2	2	Soil	10/20/06	0.23 mg/kg	Arcolor-1260 = 0.23 mg/kg
B116AL01-GB0105-	4	Soil	10/20/06	<0.016 mg/kg	Proxy value used for Arcolor-1260 0.016 mg/kg
B116AL01-GB0105-	6	Soil	10/20/06	<0.019 mg/kg	Proxy value used for Arcolor-1260 0.019 mg/kg
B116AL01-GB0105-	9	Soil	10/20/06	<0.019 mg/kg	Proxy value used for Arcolor-1260 0.019 mg/kg

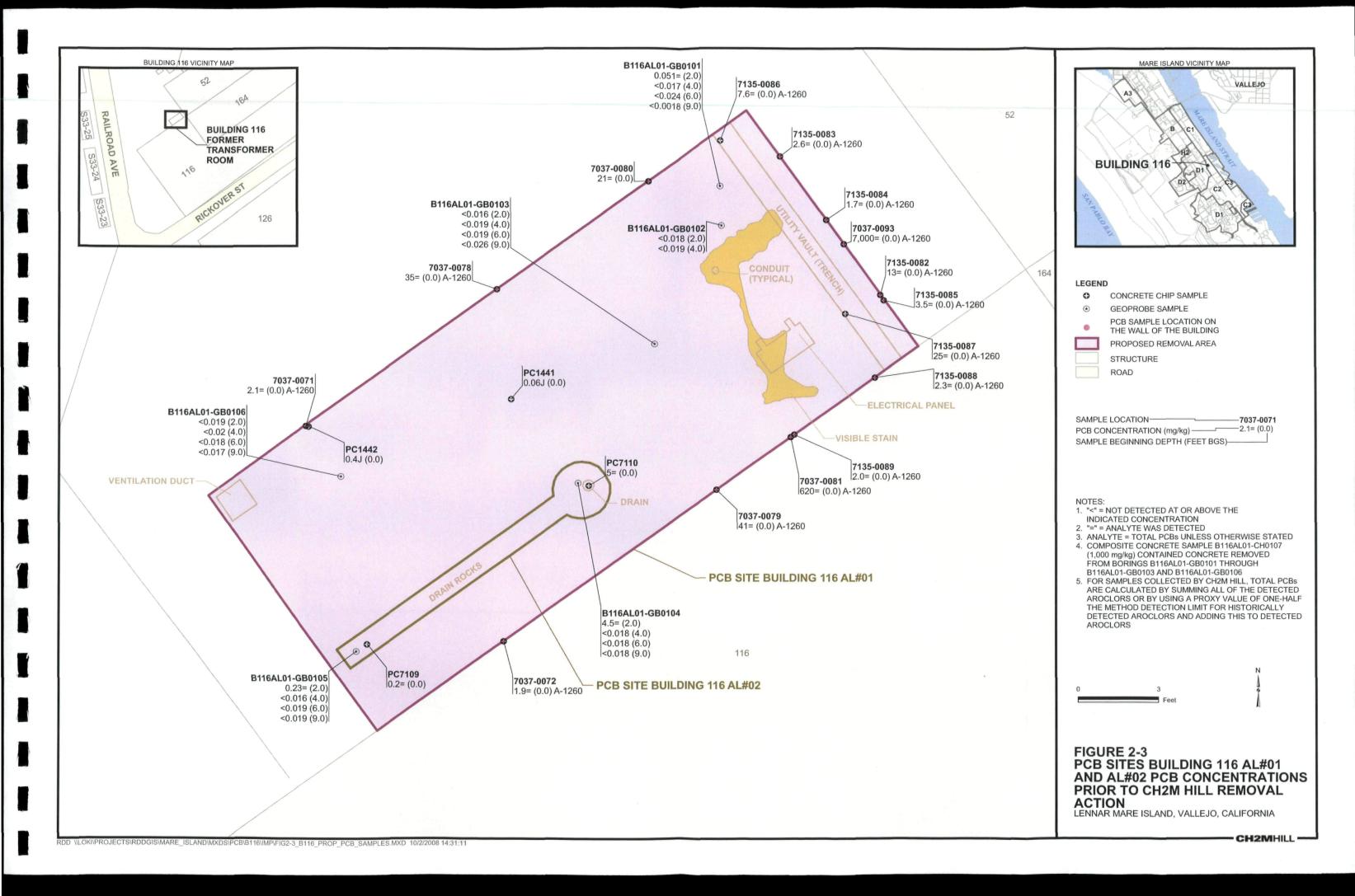
<sup>&</sup>lt;sup>a</sup>For samples collected by CH2M HILL, total PCBs are calculated by summing all of the detected Aroclors or by using a proxy value of one-half the method detection limit for historically detected Aroclors and adding this to detected Aroclors. Notes:

Sample numbers beginning with PC were collected by TtEMI. Sample numbers beginning with B were collected by CH2M HILL. Other samples were collected by SSPORTS.

Samples collected by TtEMI were reported to one significant figure.







# 3.0 Cleanup Action Summary

CH2M HILL's cleanup actions at PCB Sites Building 116 AL#01 and AL#02 consisted of deconstructing the walls, ceiling, and floor of the Building 116 former transformer room (11-foot by 24-foot room adjacent to Building 116) and excavating underlying soil in accordance with the USEPA-approved Notification (CH2M HILL 2007; USEPA 2007), and performing modifications approved by USEPA (d'Almeida 2007, pers. comm.). Analytical results for verification samples collected during CH2M HILL's cleanup actions are summarized in Table 3-1 and provided in Appendix A.

Deconstruction preparation work at PCB Sites Building 116 AL#01 and AL#02 began April 26, 2007. The former transformer room was secured with a temporary fence and the outdoor active transformer pad located north of the former transformer room was covered with a plywood structure for protection during the building deconstruction. The windows of Building 116 were covered with plastic. Island Energy verified that the electrical and gas supplies to the structure were shut off prior to deconstruction. Remaining electrical conduit inside the building was removed, and lead-based paint was scraped from the walls.

Building deconstruction began on May 1, 2007, under Permit No. DM07-0007. The metal exhaust stack of the building was removed, followed by the metal building roof. Deconstruction of the concrete ceiling and walls began at the west wall and was completed on May 2, 2007. Debris was loaded into a dump truck and transported to the stockpile area at 14th Street and Nimitz Avenue.

The concrete floor and approximately 2.5 feet of underlying soil at PCB Sites Building 116 AL#01 and AL#02 were removed between May 7 and 9, 2007. The thickness of the concrete slab ranged from 6 to 12 inches and extended approximately 2 inches above the ground surface. The total depth of the removal area was 3 feet, including the concrete slab and approximately 2.5 feet of underlying soil. Excavation began at the east end of the concrete pad and proceeded westward across the site. Concrete rubble was removed and transported to the stockpile at 14th Street and Nimitz Avenue prior to disposal. The total excavated area was 11 feet wide by 24 feet long. Approximately 30 cubic yards of concrete and soil were removed during the cleanup action.

In accordance with the Notification (CH2M HILL 2007), four, six-point composite soil verification samples were collected from the 6-foot by 7-foot areas (B116AL02CS0801 through B116AL02CS0804) and four, four-point composite soil verification samples were collected from the 4-foot by 6-foot areas (B116AL02CS0805 through B116AL02CS0808) at a depth 3 feet below the top of the former concrete surface. These eight verification samples (B116AL02-CS0801 through B116AL02-CS0808) were collected on May 9, 2007, and analyzed for PCBs. Total PCB concentrations in these eight samples ranged from 0.89 to 81 mg/kg (Table 3-1). Because total PCB concentrations in these samples exceeded the 1-mg/kg TSCA cleanup goal, additional soil was removed at PCB Sites Building 116 AL#01 and AL#02.

Because the excavation was close to the northwest wall of Building 116, it was possible that additional excavation below 3 feet bgs and collection of additional samples would pose a

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structural risk to Building 116. To protect the structural integrity of Building 116, CH2M HILL personnel modified the removal plan for PCB Sites Building 116 AL#01 and AL#02. Under the modified removal plan, eight composite verification samples were to be collected at both 6 and 10.5 feet bgs using a hand auger prior to removing additional soil. Analytical results for these 16 verification soil samples would be used to estimate the excavation depth needed to achieve the remediation goal (1 mg/kg) presented in the Notification (CH2M HILL 2007). Additional soil could then be excavated and the excavation backfilled immediately after the removal to ensure that the structural integrity of Building 116 was not compromised. Michael Sanchez of CH2M HILL contacted Ms. Carolyn d'Almeida of USEPA, who concurred with the modified removal plan for PCB Sites Building 116 AL#01 and AL#02 (d'Almeida 2007, pers. comm.).

On May 30 and 31, 2007, eight composite soil samples were collected at both 6 and 10.5 feet bgs from sample locations B116AL02CS0801 through B116AL02CS0808 at PCB Sites Building 116 AL#01 and AL#02 (Figure 3-1). Four-point composite soil samples were collected at 6 and 10.5 feet bgs at sample locations B116AL02CS0806 through B116AL02CS0808. Refusal was encountered at 7 feet bgs at the southwest subsample collection point of sample location B116AL02CS0805; therefore, a four-point composite soil sample was collected at 6 feet bgs and a three-point composite soil sample at 10.5 feet bgs at sample location B116AL02CS0805. Six-point composite soil samples were collected at 6 and 10.5 feet bgs at sample locations B116AL02CS0801 through B116AL02CS0803. An obstruction was encountered at 3.5 feet bgs at the southeast sample collection point for sample B116AL02CS0804; therefore, five-point composite soil samples were collected at 6 and 10.5 feet bgs at sample location B116AL02CS0804. Total PCB concentrations for all soil samples collected at 6 and 10.5 feet bgs were below laboratory reporting limits (which ranged from 0.019 to 0.02 mg/kg at 6 feet bgs and 0.023 to 0.034 mg/kg at 10.5 feet bgs) (Table 3-1).

After analytical results for verification samples collected at 6 and 10.5 feet bgs were received, it was determined that the excavation at PCB Sites Building 116 AL#01 and AL#02 would continue to 5.5 feet bgs. On June 12, 2007, an additional 2.5 feet of soil were excavated from the site. The excavation was backfilled to grade with compacted gravel.

Debris and soil were transported on June 14, 2007, to Kettleman Landfill in Kettleman Hills, California for disposal as a TSCA waste. Appendix B contains copies of the waste manifests for the soil and debris.

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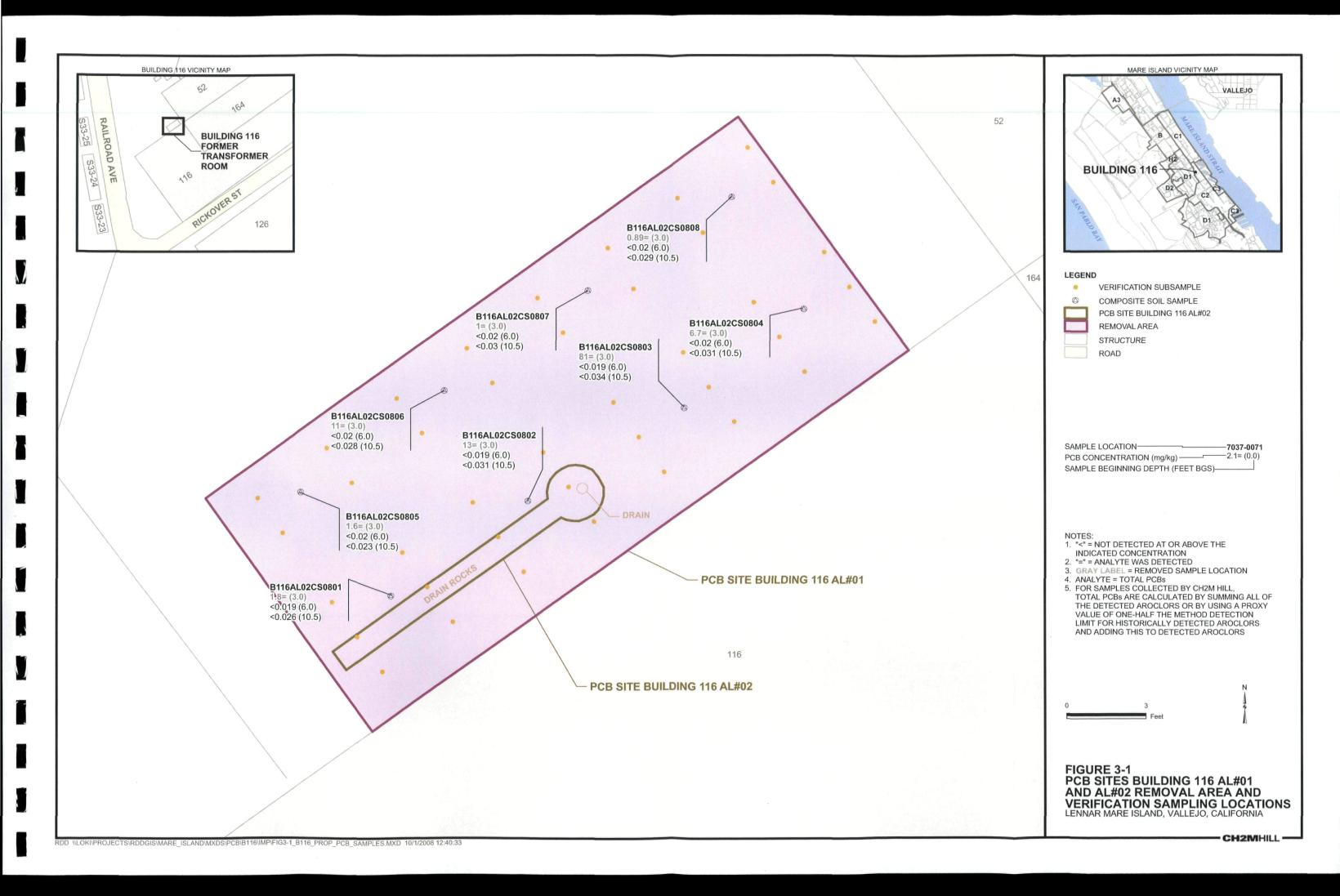
TABLE 3-1
Verification Sample Results for PCB Sites Building 116 AL#01 and AL#02
Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Sites Building 116 AL#01 and AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Sample Number	Sample Matrix	Sample Depth (feet bgs)	Sample Date	Total PCB Concentration <sup>a</sup> (mg/kg)	Comments
B116AL02CS0801	Soil	3	05/09/07	1.8	Removed during overexcavation; Aroclor-1260 = 1.8 mg/kg
B116AL02CS0801	AL02CS0801 Soil 6 05/30/07		<0.019	Proxy value used for Aroclor-1260 0.019	
B116AL02CS0801	Soil	10.5	05/30/07	<0.026	Proxy value used for Aroclor-1260 0.026
B116AL02CS0802	Soil	3	05/09/07	13	Removed during overexcavation; Aroclor-1260 = 13 mg/kg
B116AL02CS0802	Soil	6	05/30/07	<0.019	Proxy value used for Aroclor-1260 0.019
B116AL02CS0802	Soil	10.5	05/31/07	<0.031	Proxy value used for Aroclor-1260 0.031
B116AL02CS0803	Soil	3	05/09/07	81	Removed during overexcavation; Aroclor-1260 = 81 mg/kg
B116AL02CS0803	Soil	6	05/30/07	<0.019	Proxy value used for Aroclor-1260 0.019
B116AL02CS0803	Soil	10.5	05/31/07	<0.034	Proxy value used for Aroclor-1260 0.034
B116AL02CS0804	Soil	3	05/09/07	6.7	Removed during overexcavation; Aroclor-1260 = 6.7 mg/kg
B116AL02CS0804	Soil	6	05/30/07	<0.02	Proxy value used for Aroclor-1260 0.02
B116AL02CS0804	Soil	10.5	05/31/07	<0.031	Proxy value used for Aroclor-1260 0.031
B116AL02CS0805	Soil	3	05/09/07	1.6	Removed during overexcavation; Aroclor-1260 = 1.6 mg/kg
B116AL02CS0805	Soil	6	05/30/07	<0.02	Proxy value used for Aroclor-1260 0.02
B116AL02CS0805	Soil	10.5	05/30/07	<0.023	Proxy value used for Aroclor-1260 0.023
B116AL02CS0806	Soil	3 .	05/09/07	11	Removed during overexcavation; Aroclor-1260 = 11 mg/kg
B116AL02CS0806	AL02CS0806 Soil 6 05/30/07 <0.02		Proxy value used for Aroclor-1260 0.02		
B116AL02CS0806	02CS0806 Soil 10.5 05/31/07 <0.028		Proxy value used for Aroclor-1260 0.028		
B116AL02CS0807	Soil	3	05/09/07	1	Removed during overexcavation; Aroclor-1260 = 1 mg/kg
B116AL02CS0807	Soil	6 .	05/30/07	<0.02	Proxy value used for Aroclor-1260 0.02

TABLE 3-1
Verification Sample Results for PCB Sites Building 116 AL#01 and AL#02
Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Sites Building 116 AL#01 and AL#02,
Investigation Area C2, Lennar Mare Island, Vallejo, California

Sample Number	Sample Matrix	Sample Depth (feet bgs)	Sample Date	Total PCB Concentration <sup>a</sup> (mg/kg)	Comments
B116AL02CS0807	Soil	10.5	05/30/07	<0.03	Proxy value used for Aroclor-1260 0.03
B116AL02CS0808	Soil	3	05/09/07	0.89	Removed during overexcavation; Aroclor-1260 = 0.89 mg/kg
B116AL02CS0808	Soil	6	05/30/07	<0.02	Proxy value used for Aroclor-1260 0.02
B116AL02CS0808	Soil	10.5	05/30/07	<0.029	Proxy value used for Aroclor-1260 0.029

<sup>&</sup>lt;sup>a</sup>Total PCBs were calculated by summing all of the detected Aroclors or by using proxy value of one-half the method detection limit for historically detected Aroclors and adding this to detected Aroclors.



# 4.0 Polychlorinated Biphenyl Site Closure Process

Under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), NFA is appropriate at a PCB site if no potential source and no PCB contamination are present (CH2M HILL 2003). Even if a potential source or PCB contamination is present in machinery or building materials, NFA is appropriate under CERCLA if there has been no release of PCBs to soil or groundwater and no visible pathway exists for migration of PCBs to soil or groundwater (CH2M HILL 2003); such sites will be evaluated under TSCA for closure in accordance with the CA/FO (USEPA et al. 2001). If there has been a known release to soil or groundwater, NFA is also appropriate if the detected PCB concentrations in soil and groundwater do not exceed applicable screening levels, or if results of a site-specific risk evaluation demonstrate that potential risks associated with exposure to residual PCBs are within the risk-management range generally used to determine whether cleanup is necessary.

No further sampling or cleanup is necessary at PCB Sites Building 116 AL#01 and AL#02. Total PCB concentrations in verification samples collected from PCB Sites Building 116 AL#01 and AL#02 after cleanup actions were complete were below laboratory reporting limits, which ranged from 0.019 through 0.034 mg/kg, and the TSCA cleanup goal of 1 mg/kg.

Under TSCA, an NFA determination would be protective of human health and the environment at PCB Sites Building 116 AL#01 and AL#02. The conditions for USEPA closure of PCB sites have been satisfied at these sites.

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### 5.0 Conclusions

No further sampling or cleanup is necessary at PCB Sites Building 116 AL#01 and AL#02. In May and June of 2007, CH2M HILL removed concrete and soil containing concentrations of PCBs greater than the TSCA cleanup goal of 1 mg/kg. Verification samples were collected from the underlying soil and analyzed to confirm that concentrations of PCBs greater than 1 mg/kg had been removed from the site. PCBs were not detected in the verification samples at concentrations above the maximum laboratory reporting limit of 0.034 mg/kg (Table 3-1 and Figure 3-1). Therefore, PCBs do not remain at PCB Sites Building 116 AL#01 and AL#02 at concentrations greater than the cleanup goal of 1 mg/kg.

An NFA determination would be protective of human health and the environment at PCB Sites Building 116 AL#01 and AL#02. Under TSCA, NFA is appropriate at PCB Sites Building 116 AL#01 and AL#02 because of the following conclusions:

- The source of the PCBs at these sites no longer exists.
- The remaining PCB concentrations are less than 1 mg/kg.

The conditions for USEPA closure of PCB sites have been satisfied at these sites. Therefore, it is requested that USEPA issue an NFA determination for PCB Sites Building 116 AL#01 and AL#02.

#### 6.0 References

- CH2M HILL. 2003. Final Polychlorinated Biphenyl Work Plan. March 7. 2007. Letter. "Notification Regarding Self-implementing On-site Cleanup and Disposal of Polychlorinated Biphenyl Remediation Waste at PCB Site Building 116 AL#01 and AL#02 in Investigation Area C2, Eastern Early Transfer Parcel, Lennar Mare Island, Vallejo, California." January 29. d'Almeida, Carolyn/United States Environmental Protection Agency (USEPA). 2007. Email correspondence with Michael Sanchez/CH2M HILL regarding "Mare Island PCB Sites at Buildings 116 and 85." June 5. Lennar Mare Island, LLC (LMI), the City of Vallejo, and the State of California Environmental Protection Agency, Department of Toxic Substances Control. 2001. Consent Agreement Between Lennar Mare Island, the City of Vallejo, and the State of California, California Environmental Protection Agency, Department of Toxic Substances Control. April 16. Siler, Neal/Lennar Mare Island, LLC (LMI). 2006. E-mail correspondence with Michael Sanchez/CH2M HILL regarding "PCB Site Building 116 AL#01 and AL#02." October 9. Supervisor of Shipbuilding, Conversion and Repair, Portsmouth, Virginia, Environmental Detachment (SSPORTS). 1996a. PCB Decontamination Technical Work Document (TWD). PCB-Contaminated Transformer Pad. TWD No. 96-1350. Bldg. No. 116. . 1996b. Final Polychlorinated Biphenyl (PCB) Assessment for Property Leasing Conditions of Building 116. July 22. . 1998. PCB Decontamination Technical Work Document (TWD). PCB-Contaminated Transformer Pad. TWD No. 96-1350 Rev. A. Bldg. No. 116. November 19. SWA Group. 2000. Preliminary Land Use Plan. May 23.
- Tetra Tech Environmental Management, Inc. (TtEMI). 1998. Final Basewide Polychlorinated Biphenyl Confirmation Sampling Summary Report. February 13.
- United States Environmental Protection Agency (USEPA), United States Department of the Navy, the City of Vallejo, and Lennar Mare Island, LLC (LMI). 2001. Complaint/Consent Agreement and Final Order Between Lennar Mare Island, the City of Vallejo, the U.S. Department of the Navy, and the U.S. Environmental Protection Agency Region IX. EPA Docket No. TSCA-9-2002-0002. December 20.
- \_\_\_\_\_\_. 2007. Letter. "Re: January 29, 2007 Notification Regarding Self-implementing On-site Cleanup and Disposal of Polychlorinated Biphenyl Remediation Waste at PCB Site Building 116 AL#01 and AL#02 in Investigation Area C2, Eastern Early Transfer Parcel, Lennar Mare Island, Vallejo, California." February 22.

Appendix A CH2M HILL Verification Sampling Analytical Data

Appendix A CH2M HILL Verification Sampling Analytical Data, Building 116 Draft Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Site Building 116 AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Location of Sample	Sample Identifier	Analyte	CAS Number	QA/QC Type	Value (mg/Kg)	Flag [1]	Date and Time of Sample	Sample Beginning Depth (ft BGS)	Sample Ending Depth (ft BGS)	Removed?	Type of Sample	Source of Measurement
CB Compounds				-						· · · · · · · · · · · · · · · · · · ·		
B116AL02CS0801	B116AL02CS0801-S10.5	AROCLOR-1016	. 12674-11-2	ORIG	5.2E-02	U	5/30/2007 3:05:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S10.5	AROCLOR-1221	11104-28-2	ORIG	5.2E-02	U	5/30/2007 3:05:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S10.5	AROCLOR-1232	11141-16-5	ORIG	5.2E-02	U	5/30/2007 3:05:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S10.5	AROCLOR-1242	53469-21-9	ORIG	5.2E-02	U	5/30/2007 3:05:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S10.5	AROCLOR-1248	12672-29-6	ORIG	5.2E-02	U	5/30/2007 3:05:00 PM	10.5	11.0	. <b>N</b>	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S10.5	AROCLOR-1254	11097-69-1	ORIG	5.2E-02	Ü	5/30/2007 3:05:00 PM	10.5	11.0	N	Composite Soil .	Laboratory
B116AL02CS0801	B116AL02CS0801-S10.5	AROCLOR-1260	11096-82-5	ORIG	5.2E-02	U	5/30/2007 3:05:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S10.5	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.6E-02	U	5/30/2007 3:05:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	AROCLOR-1016	12674-11-2	ORIG	2.0E-01	U	5/9/2007 11:50:00 AM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	AROCLOR-1221	11104-28-2	ORIG	2.0E-01	U	5/9/2007 11:50:00 AM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	AROCLOR-1232	11141-16-5	ORIG	2.0E-01	U	5/9/2007 11:50:00 AM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	AROCLOR-1242	53469-21-9	ORIG	2.0E-01	U	5/9/2007 11:50:00 AM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	AROCLOR-1248	12672-29-6	ORIG	2.0E-01	U	5/9/2007 11:50:00 AM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	AROCLOR-1254	11097-69-1	ORIG	2.0E-01	U	5/9/2007 11:50:00 AM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	AROCLOR-1260	11096-82-5	ORIG	1.8E+00	=	5/9/2007 11:50:00 AM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0801	B116AL02-CS0801-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	1.8E+00	=	5/9/2007 11:50:00 AM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S6	AROCLOR-1016	12674-11-2	ORIG	3.8E-02	U	5/30/2007 9:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
3116AL02CS0801	B116AL02CS0801-S6	AROCLOR-1221	11104-28-2	ORIG	3.8E-02	U	5/30/2007 9:00:00 AM	6.0	6.5		Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S6	AROCLOR-1232	11141-16-5	ORIG	3.8E-02	U	5/30/2007 9:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S6	AROCLOR-1242	53469-21-9	ORIG	3.8E-02	U	5/30/2007 9:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S6	AROCLOR-1248	12672-29-6	ORIG	3.8E-02	U	5/30/2007 9:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S6	AROCLOR-1254	11097-69-1	ORIG	3.8E-02	Ū	5/30/2007 9:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0801	B116AL02CS0801-S6	AROCLOR-1260	11096-82-5	ORIG .	3.8E-02	Ū	5/30/2007 9:00:00 AM	6.0	6.5	N.	Composite Soil	Laboratory
3116AL02CS0801	B116AL02CS0801-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	1.9E-02	Ū	5/30/2007 9:00:00 AM	6.0	6.5	N.	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	AROCLOR-1016	12674-11-2	ORIG	6.1E-02	Ū·	5/31/2007 10:34:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	AROCLOR-1221	11104-28-2	ORIG	6.1E-02	Ū	5/31/2007 10:34:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	AROCLOR-1232	11141-16-5	ORIG	6.1E-02	U	5/31/2007 10:34:00 AM	10.5	11.0	N.	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	AROCLOR-1242	53469-21-9	ORIG	6.1E-02	U	5/31/2007 10:34:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	AROCLOR-1248	12672-29-6	ORIG	6.1E-02	Ü	5/31/2007 10:34:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	AROCLOR-1254	11097-69-1	ORIG	6.1E-02	U	5/31/2007 10:34:00 AM	10.5	11.0	N.	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	AROCLOR-1260	11096-82-5	ORIG	6.1E-02	U	5/31/2007 10:34:00 AM	10.5	11.0	N.	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S10.5	Total PCBs_B116_09272007	TOTAL PCBS B116 09272007	ORIG	3.1E-02	U	5/31/2007 10:34:00 AM	10.5	11.0	N N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02-CS0802-S3	AROCLOR-1016	12674-11-2	ORIG	1.9E+00	U	5/9/2007 12:00:00 PM	3.0	3.5	Ý	Composite Soil	Laboratory
B116AL02CS0802	B116AL02-CS0802-S3	AROCLOR-1221	11104-28-2	ORIG	1.9E+00	U	5/9/2007 12:00:00 PM	3.0	3.5	•	Composite Soil	Laboratory
B116AL02CS0802	B116AL02-CS0802-S3	AROCLOR-1232	11141-16-5	ORIG	1.9E+00	U	5/9/2007 12:00:00 PM	3.0	3.5		Composite Soil	Laboratory
B116AL02CS0802	B116AL02-CS0802-S3	AROCLOR-1242	53469-21-9	ORIG	1.9E+00	U	5/9/2007 12:00:00 PM	3.0	3.5		Composite Soil	Laboratory
B116AL02CS0802	B116AL02-CS0802-S3	AROCLOR-1248	12672-29-6	ORIG	1.9E+00	U	5/9/2007 12:00:00 PM	3.0	3.5	, ,	Composite Soil	Laboratory
B116AL02CS0802	B116AL02-CS0802-S3	AROCLOR-1254	11097-69-1	ORIG	1.9E+00	U	5/9/2007 12:00:00 PM			, ,	•	
B116AL02CS0802	B116AL02-CS0802-S3	AROCLOR-1254 AROCLOR-1260	11096-82-5		1.9E+00 1.3E+01			3.0	3.5	T V	Composite Soil -	Laboratory
B116AL02CS0802	B116AL02-CS0802-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG ORIG	1.3E+01 1.3E+01	=	5/9/2007 12:00:00 PM 5/9/2007 12:00:00 PM	3.0 3.0	3.5 3.5	T	Composite Soil	Laboratory Laboratory

NOTES:
For samples collected by CH2M HILL, Total PCB are calculated by summing detected Aroclors or by summing detected Aroclors to a proxy value (one-half the reporting limit) for historically detected Aroclors. If Sample Depth = 999, actual Sample Depth is unknown.

Detected Result

Non-Detected Result

Appendix A CH2M HILL Verification Sampling Analytical Data, Building 116 Draft Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Site Building 116 AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Location of Sample	Sample Identifier	Analyte	CAS Number	QA/QC Type	Value (mg/Kg)	Flag [1]	Date and Time of Sample	Sample Beginning Depth (ft BGS)	Sample Ending Depth (ft BGS)	Removed?	Type of Sample	Source of Measurement
PCB Compounds				•								
B116AL02CS0802	B116AL02CS0802-S6	AROCLOR-1016	12674-11-2	ORIG	3.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S6	AROCLOR-1221	11104-28-2	ORIG	3.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S6	AROCLOR-1232	11141-16-5	ORIG	3.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S6	AROCLOR-1242	53469-21-9	ORIG	3.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S6	AROCLOR-1248	12672-29-6	ORIG	3.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S6	AROCLOR-1254	11097-69-1	ORIG	3.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S6	AROCLOR-1260	11096-82-5	ORIG	3.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0802	B116AL02CS0802-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	1.9E-02	U	5/30/2007 9:50:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	AROCLOR-1016	12674-11-2	ORIG	6.9E-02	U	5/31/2007 10:54:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	AROCLOR-1221	11104-28-2	ORIG	6.9E-02	U	5/31/2007 10:54:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	AROCLOR-1232	11141-16-5	ORIG	6.9E-02	U	5/31/2007 10:54:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	AROCLOR-1242	53469-21-9	ORIG	6.9E-02	U	5/31/2007 10:54:00 AM	10,5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	AROCLOR-1248	12672-29-6	ORIG	6.9E-02	Ū	5/31/2007 10:54:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	AROCLOR-1254	11097-69-1	ORIG	6.9E-02	U	5/31/2007 10:54:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	AROCLOR-1260	11096-82-5	ORIG	6.9E-02	u.	5/31/2007 10:54:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S10.5	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	3.4E-02	U	5/31/2007 10:54:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	AROCLOR-1016	12674-11-2	ORIG	6.9E+00	Ü	5/9/2007 12:03:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	AROCLOR-1221	11104-28-2	ORIG	6.9E+00	u	5/9/2007 12:03:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	AROCLOR-1232	11141-16-5	ORIG	6.9E+00	u	5/9/2007 12:03:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	AROCLOR-1242	53469-21-9	ORIG	6.9E+00	u	5/9/2007 12:03:00 PM	3.0	3.5	· Y	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	AROCLOR-1248	12672-29-6	ORIG	6.9E+00	Ü	5/9/2007 12:03:00 PM	3.0	3.5	, Y	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	AROCLOR-1254	11097-69-1	ORIG	6.9E+00	U	5/9/2007 12:03:00 PM	3.0	3.5	· Y	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	AROCLOR-1260	11096-82-5	ORIG	8.1E+01	=	5/9/2007 12:03:00 PM	3.0	3.5	, Y	Composite Soil	Laboratory
B116AL02CS0803	B116AL02-CS0803-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	8.1E+01	=	5/9/2007 12:03:00 PM	. 3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S6	AROCLOR-1016	12674-11-2	ORIG	3.9E-02	U	5/30/2007 10:30:00 AM	6.0	6.5	, N	Composite Soil	
B116AL02CS0803	B116AL02CS0803-S6	AROCLOR-1221	11104-28-2	ORIG	3.9E-02	U	5/30/2007 10:30:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S6	AROCLOR-1232	11141-16-5	ORIG	3.9É-02	U	5/30/2007 10:30:00 AM	6.0	6.5	N	•	Laboratory
B116AL02CS0803	B116AL02CS0803-S6	AROCLOR-1242	53469-21-9	ORIG	3.9E-02	U	5/30/2007 10:30:00 AM	6.0	6.5	N	Composite Soil Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S6	AROCLOR-1242 AROCLOR-1248	12672-29-6	ORIG	3.9E-02 3.9E-02	U	5/30/2007 10:30:00 AM			N	•	Laboratory
B116AL02CS0803	B116AL02CS0803-S6	AROCLOR-1246 AROCLOR-1254				U ·		6.0 6.0	6.5	N N	Composite Soil	Laboratory
		AROCLOR-1260	11097-69-1	ORIG	3.9E-02	U	5/30/2007 10:30:00 AM		6.5	N	Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S6		11096-82-5	ORIG	3.9E-02	•	5/30/2007 10:30:00 AM	6.0	6.5		Composite Soil	Laboratory
B116AL02CS0803	B116AL02CS0803-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	1.9E-02	U	5/30/2007 10:30:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	AROCLOR-1016	12674-11-2	ORIG	6.2E-02	U	5/31/2007 9:45:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	AROCLOR-1221	11104-28-2	ORIG	6.2E-02	U 	5/31/2007 9:45:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	AROCLOR-1232	11141-16-5	ORIG	6.2E-02	U 	5/31/2007 9:45:00 AM	10.5	11.0	N N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	AROCLOR-1242	53469-21-9	ORIG	6.2E-02	U	5/31/2007 9:45:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	AROCLOR-1248	12672-29-6	ORIG	6.2E-02	U	5/31/2007 9:45:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	AROCLOR-1254	11097-69-1	ORIG	6.2E-02	U	5/31/2007 9:45:00 AM	10,5	11.0	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	AROCLOR-1260	11096-82-5	ORIG	6.2E-02	U	5/31/2007 9:45:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S10.5	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	3.1E-02	U	5/31/2007 9:45:00 AM	10.5	11.0	N	Composite Soil	Laboratory

NOTES:
For samples collected by CH2M HILL, Total PCB are calculated by summing detected Aroclors or by summing detected Aroclors to a proxy value (one-half the reporting limit) for historically detected Aroclors.

If Sample Depth = 999, actual Sample Depth is unknown.

[1] FLAGS

Detected Result

Non-Detected Result

Appendix A CH2M HILL Verification Sampling Analytical Data, Building 116 Draft Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Site Building 116 AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Location of Sample	Sample Identifier	Analyte	CAS Number	QA/QC Type	Value (mg/Kg)	Flag [1]	Date and Time of Sample	Sample Beginning Depth (ft BGS)	Sample Ending Depth (ft BGS)	Removed?	Type of Sample	Source of Measuremen
CB Compounds												
B116AL02CS0804	B116AL02-CS0804-S3	AROCLOR-1016	12674-11-2	ORIG	7.7E-01	U	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02-CS0804-S3	AROCLOR-1221	11104-28-2	ORIG	7.7E-01	U	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02-CS0804-S3	AROCLOR-1232	11141-16-5	ORIG	7.7E-01	U	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02-CS0804-S3	AROCLOR-1242	53469-21-9	ORIG	7.7E-01	U	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02-CS0804-S3	AROCLOR-1248	12672-29-6	ORIG	7.7E-01	U	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02-CS0804-S3	AROCLOR-1254	11097-69-1	ORIG	7.7E-01	U	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02-CS0804-S3	AROCLOR-1260	11096-82-5	ORIG	6.7E+00	=	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02-CS0804-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	6.7E+00	=	5/9/2007 12:07:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	AROCLOR-1016	12674-11-2	ORIG	4.0E-02	U	5/30/2007 11:15:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	AROCLOR-1221	11104-28-2	ORIG	4.0E-02	U	5/30/2007 11:15:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	AROCLOR-1232	11141-16-5	ORIG	4.0E-02	U	5/30/2007 11:15:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	AROCLOR-1242	53469-21-9	ORIG	4.0E-02	U	5/30/2007 11:15:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	AROCLOR-1248	12672-29-6	ORIG	4.0E-02	U	5/30/2007 11:15:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	AROCLOR-1254	11097-69-1	ORIG	4.0E-02	U	5/30/2007 11:15:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	AROCLOR-1260	11096-82-5	ORIG	4.0E-02	U	5/30/2007 11:15:00 AM	6.0	. 6.5	N	Composite Soil	Laboratory
B116AL02CS0804	B116AL02CS0804-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.0E-02	U	5/30/2007 11:15:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	AROCLOR-1016	12674-11-2	ORIG	4.7E-02	U	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	AROCLOR-1221	11104-28-2	ORIG	4.7E-02	U	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	AROCLOR-1232	11141-16-5	ORIG	4.7E-02	U	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	AROCLOR-1242	53469-21-9	ORIG	4.7E-02	Ū	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	AROCLOR-1248	12672-29-6	ORIG	4.7E-02	U	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	AROCLOR-1254	11097-69-1	ORIG	4.7E-02	Ū	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	AROCLOR-1260	11096-82-5	ORIG	4.7E-02	Ü	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S10.5	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.3E-02	Ü	5/30/2007 2:10:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	AROCLOR-1016	12674-11-2	ORIG -	2.0E-01	U	5/9/2007 12:10:00 PM	3.0	3.5	. Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	AROCLOR-1221	11104-28-2	ORIG	2.0E-01	Ū	5/9/2007 12:10:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	AROCLOR-1232	11141-16-5	ORIG	2.0E-01	Ü	5/9/2007 12:10:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	AROCLOR-1242	53469-21-9	ORIG	2.0E-01	Ü	5/9/2007 12:10:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	AROCLOR-1248	12672-29-6	ORIG	2.0E-01	U	5/9/2007 12:10:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	AROCLOR-1254	11097-69-1	ORIG	2.0E-01	Ū	5/9/2007 12:10:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	AROCLOR-1260	11096-82-5	ORIG	1.6E+00	=	5/9/2007 12:10:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02-CS0805-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	1.6E+00	=	5/9/2007 12:10:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	AROCLOR-1016	12674-11-2	ORIG	4.1E-02	U	5/30/2007 8:45:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	AROCLOR-1221	11104-28-2	ORIG	4.1E-02	u	5/30/2007 8:45:00 AM	6.0	6.5	N.	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	AROCLOR-1232	11141-16-5	ORIG	4.1E-02	U	5/30/2007 8:45:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	AROCLOR-1242	53469-21-9	ORIG	4.1E-02	U	5/30/2007 8:45:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	AROCLOR-1248	12672-29-6	ORIG	4.1E-02	U	5/30/2007 8:45:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	AROCLOR-1254	11097-69-1	ORIG .	4.1E-02	U .	5/30/2007 8:45:00 AM	6.0	6.5	N.	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	AROCLOR-1260	11096-82-5	ORIG	4.1E-02 4.1E-02	U	5/30/2007 8:45:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0805	B116AL02CS0805-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	4.1E-02 2.0E-02	U	5/30/2007 8:45:00 AM	6.0	6.5	N N	Composite Soil	Laboratory

For samples collected by CH2M HILL, Total PCB are calculated by summing detected Aroclors or by summing detected Aroclors to a proxy value (one-half the reporting limit) for historically detected Aroclors.

If Sample Depth = 999, actual Sample Depth is unknown.

[1] FLAGS

Detected Result

Ū Non-Detected Result

Appendix A CH2M HILL Verification Sampling Analytical Data, Building 116 Draft Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Site Building 116 AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

ocation of Sample	Sample Identifier	Analyte	CAS Number	QA/QC Type	Value (mg/Kg)	Flag [1]	Date and Time of Sample	Sample Beginning Depth (ft BGS)	Sample Ending Depth (ft BGS)	Removed?	Type of Sample	Source of Measurement
CB Compounds											·	
B116AL02CS0806	B116AL02CS0806-S10.5	AROCLOR-1016	12674-11-2	ORIG	5.6E-02	U	5/31/2007 9:20:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S10.5	AROCLOR-1221	11104-28-2	ORIG	5.6E-02	U	5/31/2007 9:20:00 AM	10.5	11.0	N	Composite Soil	Laboratory.
B116AL02CS0806	B116AL02CS0806-S10.5	AROCLOR-1232	11141-16-5	ORIG	5.6E-02	U	5/31/2007 9:20:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S10.5	AROCLOR-1242	53469-21-9	ORIG	5.6E-02	U	5/31/2007 9:20:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S10.5	AROCLOR-1248	12672-29-6	ORIG	5.6E-02	U	5/31/2007 9:20:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S10.5	AROCLOR-1254	11097-69-1	ORIG	5.6E-02	U	5/31/2007 9:20:00 AM	10.5	11.0	N ·	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S10.5	AROCLOR-1260	11096-82-5	ORIG	5.6E-02	U	5/31/2007 9:20:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S10.5	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.8E-02	υ	5/31/2007 9:20:00 AM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02-CS0806-S3	AROCLOR-1016	12674-11-2	ORIG	7.7E-01	U	5/9/2007 12:13:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0806	B116AL02-CS0806-S3	AROCLOR-1221	11104-28-2	ORIG	7.7E-01	U	5/9/2007 12:13:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0806	B116AL02-CS0806-S3	AROCLOR-1232	11141-16-5	ORIG	7.7E-01	U	5/9/2007 12:13:00 PM	3.0	3.5	Υ	Composite Soil .	Laboratory
B116AL02CS0806	B116AL02-CS0806-S3	AROCLOR-1242	53469-21-9	ORIG	7.7E-01	U	5/9/2007 12:13:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0806	B116AL02-CS0806-S3	AROCLOR-1248	12672-29-6	ORIG	7.7E-01	U	5/9/2007 12:13:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0806	B116AL02-CS0806-S3	AROCLOR-1254	11097-69-1	ORIG	7.7E-01	U	5/9/2007 12:13:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0806	B116AL02-CS0806-S3	AROCLOR-1260	11096-82-5	ORIG	1.1E+01	=	5/9/2007 12:13:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
3116AL02CS0806	B116AL02-CS0806-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	1.1E+01	=	5/9/2007 12:13:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
3116AL02CS0806	B116AL02CS0806-S6	AROCLOR-1016	12674-11-2	ORIG	4.0E-02	U	5/30/2007 9:20:00 AM	6.0	6.5	N	Composite Soil	Laboratory
3116AL02CS0806	B116AL02CS0806-S6	AROCLOR-1221	11104-28-2	ORIG	4.0E-02	U	5/30/2007 9:20:00 AM .	6.0	6.5	N	Composite Soil	Laboratory
3116AL02CS0806	B116AL02CS0806-S6	AROCLOR-1232	11141-16-5	ORIG	4.0E-02	U	5/30/2007 9:20:00 AM	6.0	6.5	N	Composite Soil	Laboratory
3116AL02CS0806	B116AL02CS0806-S6	AROCLOR-1242	53469-21-9	ORIG	4.0E-02	Ū	5/30/2007 9:20:00 AM	6.0	6.5	N	Composite Soil	Laboratory
3116AL02CS0806	B116AL02CS0806-S6	AROCLOR-1248	12672-29-6	ORIG	4.0E-02	Ū	5/30/2007 9:20:00 AM	6.0	6.5	N	Composite Soil	Laboratory
3116AL02CS0806	B116AL02CS0806-S6	AROCLOR-1254	11097-69-1	ORIG	4.0E-02	Ü	5/30/2007 9:20:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S6	AROCLOR-1260	11096-82-5	ORIG	4.0E-02	Ū	5/30/2007 9:20:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0806	B116AL02CS0806-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.0E-02	υ	5/30/2007 9:20:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	AROCLOR-1016	12674-11-2	ORIG	6.1E-02	U	5/30/2007 3:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	AROCLOR-1221	11104-28-2	ORIG	6.1E-02	υ	5/30/2007 3:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	AROCLOR-1232	11141-16-5	ORIG	6.1E-02	Ú	5/30/2007 3:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	AROCLOR-1242	53469-21-9	ORIG	6.1E-02	Ü	5/30/2007 3:00:00 PM	10.5	11.0	, N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	AROCLOR-1248	12672-29-6	ORIG	6.1E-02	Ū	5/30/2007 3:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	AROCLOR-1254	11097-69-1	ORIG	6.1E-02	Ü	5/30/2007 3:00:00 PM	10.5	11.0	N N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	AROCLOR-1260	11096-82-5	ORIG	6.1E-02	Ü	5/30/2007 3:00:00 PM	10.5	11.0	N.	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S10.5	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	3.0E-02	U	5/30/2007 3:00:00 PM	10.5	11.0	N N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02-CS0807-S3	AROCLOR-1016	12674-11-2	ORIG	1.8E-01	U	5/9/2007 12:15:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
3116AL02CS0807	B116AL02-CS0807-S3	AROCLOR-1221	11104-28-2	ORIG	1.8E-01	U	5/9/2007 12:15:00 PM	3.0	3.5	· •	Composite Soil	Laboratory
3116AL02CS0807	B116AL02-CS0807-S3	AROCLOR-1232	11141-16-5	ORIG	1.8E-01	U	5/9/2007 12:15:00 PM	3.0	3.5	, v	Composite Soil	Laboratory
3116AL02CS0807	B116AL02-CS0807-S3	AROCLOR-1242	53469-21-9	ORIG	1.8E-01	U	5/9/2007 12:15:00 PM	3.0	3.5	· •	Composite Soil	Laboratory
3116AL02CS0807	B116AL02-CS0807-S3	AROCLOR-1248	12672-29-6	ORIG	1.8E-01	U	5/9/2007 12:15:00 PM			, ,	Composite Soil	
B116AL02CS0807	B116AL02-CS0807-S3	AROCLOR-1248 AROCLOR-1254	11097-69-1	ORIG	1.8E-01	U		3.0	3.5 3.5	τ •	Composite Soil	Laboratory
B116AL02CS0807	B116AL02-CS0807-S3	AROCLOR-1254 AROCLOR-1260	11097-69-1			=	5/9/2007 12:15:00 PM	3.0	3.5 3.5	τ .` •	•	Laboratory
B116AL02CS0807	B116AL02-CS0807-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG ORIG	1.0E+00 1.0E+00	=	5/9/2007 12:15:00 PM 5/9/2007 12:15:00 PM	3.0 3.0	3.5 3.5	Y	Composite Soil Composite Soil	Laboratory Laboratory

NOTES:
For samples collected by CH2M HILL, Total PCB are calculated by summing detected Aroclors or by summing detected Aroclors to a proxy value (one-half the reporting limit) for historically detected Aroclors. If Sample Depth = 999, actual Sample Depth is unknown.

[1] FLAGS

**Detected Result** 

Ū Non-Detected Result

Appendix A CH2M HILL Verification Sampling Analytical Data, Building 116 Draft Site Characterization and Cleanup Action Summary Report for Polychlorinated Biphenyl Site Building 116 AL#02, Investigation Area C2, Lennar Mare Island, Vallejo, California

Location of Sample	Sample Identifier	Analyte	CAS Number	QA/QC Type	Value (mg/Kg)	Flag [1]	Date and Time of Sample	Sample Beginning Depth (ft BGS)	Sample Ending Depth (ft BGS)	Removed?	Type of Sample	Source of Measurement
PCB Compounds												
B116AL02CS0807	B116AL02CS0807-S6	AROCLOR-1016	12674-11-2	ORIG	4.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S6	AROCLOR-1221	11104-28-2	ORIG	4.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S6	AROCLOR-1232	11141-16-5	ORIG	4.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S6	AROCLOR-1242	53469-21-9	ORIG	4.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S6	AROCLOR-1248	12672-29-6	ORIG	4.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S6	AROCLOR-1254	11097-69-1	ORIG	4.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S6	AROCLOR-1260	11096-82-5	ORIG	4.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0807	B116AL02CS0807-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.0E-02	U	5/30/2007 10:00:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	AROCLOR-1016	12674-11-2	ORIG	5.8E-02	U	5/30/2007 2:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	AROCLOR-1221	11104-28-2	ORIG	5.8E-02	U	5/30/2007 2:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	AROCLOR-1232	11141-16-5	ORIG	5.8E-02	U	5/30/2007 2:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	AROCLOR-1242	53469-21-9	ORIG	5.8E-02	ับ	5/30/2007 2:00:00 PM	10.5	11.0	Ň	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	AROCLOR-1248	12672-29-6	ORIG	5.8E-02	υ	5/30/2007 2:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	AROCLOR-1254	11097-69-1	ORIG	5.8E-02	U	5/30/2007 2:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	AROCLOR-1260	11096-82-5	ORIG	5.8E-02	U	5/30/2007 2:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S10.5	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.9E-02	υ	5/30/2007 2:00:00 PM	10.5	11.0	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	AROCLOR-1016	12674-11-2	ORIG	1.8E-01	U	5/9/2007 12:20:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	AROCLOR-1221	11104-28-2	ORIG	1.8E-01	U	5/9/2007 12:20:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	AROCLOR-1232	11141-16-5	ORIG	1.8E-01	U	5/9/2007 12:20:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	AROCLOR-1242	53469-21-9	ORIG	1.8E-01	U	5/9/2007 12:20:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	AROCLOR-1248	12672-29-6	ORIG	1.8E-01	υ	5/9/2007 12:20:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	AROCLOR-1254	11097-69-1	ORIG	1.8E-01	U	5/9/2007 12:20:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	AROCLOR-1260	11096-82-5	ORIG	8.9E-01	= .	5/9/2007 12:20:00 PM	3.0	3.5	Υ	Composite Soil	Laboratory
B116AL02CS0808	B116AL02-CS0808-S3	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	8.9E-01	=	5/9/2007 12:20:00 PM	3.0	3.5	Y	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	AROCLOR-1016	12674-11-2	ORIG	4.0E-02	U	5/30/2007 10:40:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	AROCLOR-1221	11104-28-2	ORIG	4.0E-02	U	5/30/2007 10:40:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	AROCLOR-1232	11141-16-5	ORIG	4.0E-02	U	5/30/2007 10:40:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	AROCLOR-1242	53469-21-9	ORIG	4.0E-02	U	5/30/2007 10:40:00 AM	6.0	6.5	N.	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	AROCLOR-1248	12672-29-6	ORIG	4.0E-02	U	5/30/2007 10:40:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	AROCLOR-1254	11097-69-1	ORIG	4.0E-02	U	5/30/2007 10:40:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	AROCLOR-1260	11096-82-5	ORIG	4.0E-02	υ	5/30/2007 10:40:00 AM	6.0	6.5	N	Composite Soil	Laboratory
B116AL02CS0808	B116AL02CS0808-S6	Total PCBs_B116_09272007	TOTAL PCBS_B116_09272007	ORIG	2.0E-02	U	5/30/2007 10:40:00 AM	6.0	6.5	N	Composite Soil	Laboratory

NOTES:
For samples collected by CH2M HILL, Total PCB are calculated by summing detected Aroclors or by summing detected Aroclors to a proxy value (one-half the reporting limit) for historically detected Aroclors. If Sample Depth = 999, actual Sample Depth is unknown.

[1] FLAGS

**Detected Result** 

Non-Detected Result

Appendix B Waste Manifests for PCB Sites Building 116 AL#01 and AL#02

se print or type. (Form design	aned for use on elite	(12-pilch) typewriter.)					Form	Approved. (	DMB No. 21	50-0039
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Num			3 Emergency Response 1 -800-838-1477	·	00	Tracking Nu.		3 JJ	K
Vallejo, C	ut Ave. Suite 1	00	MAJLING:	General Steamorss IRO9 / IR12 Mare Island, C.		in mailing addre	ss)			
Transporter 1 Company Nam Transporter 2 Company Nam	deco	+dons		•		U.S. EPAID U.S. EPAID	R00	018	2451	· · · · · · · · · · · · · · · · · · ·
	kyline Road	s59-386-9711	*	P. 4 (1)		U.S. EPAID		1000646	117	
9a. 9b; U.S. DOT Descript HM and Packing Group (if	tion (including Proper S (any))	Shipping Name, Hazard Clas	ss, ID Number,	10. Contair No.	Type	11. Total Quantity	12. Unit Wt/Vol.	13. V	Vaste Codes	
	RA Hazardoni contaminated v	Waste Solid with 4.430 PPM Po	CB)	001	DT	2884E		261		
2						20546	rg			
3									· · · · · · · · · · · · · · · · · · ·	
4			Annesse de la competencia della competencia dell				* *			
<ol> <li>GENERATOR'S/OFFER marked and labeled/place Exporter, I certify that the I certify that the waste me Generator's/Offeror's Printed/</li> </ol>	COR'S CERTIFICATION Carded, and are in all re e contents of this consistent in the consistent of the c	spects in proper condition in gament conform to the term identified in 40 CFR 262.27(	contents of this consignment or transport according to appli is of the attached EPA Acknow a) (if I am a large quantity ger	are fully and accurately de cable international and nat ledgment of Consent erator) or (b) (if I am a sins mature	scribed above ional governm all quantity ge	ental regulation	hipping name	, and are clas	sified, packa am the Prima	ged,
MICHAEL D 16: International Shipments	Import to	<i>f g g</i>	r Lannar)	Michael  J.S. Pontofer		<u> </u>		<u> </u>   0	6113	107
Transporter signature (for exp 17: Transporter Acknowledgm	ports only):			Date leav						
Transporter 1 Printed/Typed N	schero			nature from Kr				Mon Mor	6 143	Year 107 Year
18. Discrepancy Indication S	pace Duan	sity.	Туре	Residue Manifest Reference	e Number:	Pertial R	ejection		Full Reje	ction
				. No. 1, 20	17 11	U.S. EPA ID	Number	* 1.		
Facility's Phone:	·					1	······································	T Ma	nth Day	Year
Facility's Phone: 18c. Signature of Alternate Fa	acility (or Generator)	Code: fi à cirile hi h	mbujo upata (rastmani) (the	il and mouther collect	······································	<u> </u>		Мо	nth Day	Year
18b. Alternate Facility (or Gen Facility's Phone: 18c. Signature of Alternate Fa 19. Hazardous Wasta Report	acility (or Generator)  Management Method	2.	dous waste treatment, disposing the manufacture of			4.		Mo	nth Day	Year

Ple	_	print or type. (Form designed for use on e								Approved, (	OMB No. 2	050-0039
X	U	INIFORM HAZARDOUS 1. Generator ID N WASTE MANIFEST	umber	2. Page 1 of		icy Response I		4. Manifest T	239	734	6 JJ	K
, <b>T</b> ,	l G	Génerator's Name and Mailing Address Learning Potation Technical Cale Labor Walning Commission Laboratory Commission September 1985 - 1			- La felicia - PALPO /	Also take	ija te	n mailing address	5)			
	7	Transporter 1 Company Name  Transporter 2 Company Name	11/1/15	***************************************			······································	U.S. EPAID N U.S. EPAID N	981	573.	191	• <u>• • • • • • • • • • • • • • • • • • </u>
		Designated Facility Name and Site Address  Theretic of Warris Advance  1974 Old Skyline Front  additys Phone:						U.S. EPA ID N		[ <b>14</b> ]8 §	i i	
	Γ	9a. 9b. U.S. DOT Description (including Properties) and Packing Group (if any))		D Number,	-	10. Contain	ers Type	11. Total Quantity	12. Unit	13. Waste Codes		
GENFRATOR -		1. Part of a liberinament bug (Salta aniamentes) and				Z	iq	20316	LA	.011	.324	
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		marked and labeled/placarded, and are in a Exporter, I certify that the contents of this co I certify that the waste minimization stateme Generator's/Offeror's Printed/Typed Name	nsignment conform to the terms of at identified in 40 CFR 262.27(a) (	the attached EPA Acknowled I am a large quantity ge	wledgment of nerator) or (to gnature	Consent. ) (if I am a sma	Il quantity ge		if export sh	Mon	.a.	Year
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		20. Designated Facility Owner or Operator: Certii Printed/Typed Name	fication of receipt of hazardous ma		nifest except ignature	as noted in Iter	n 18a			Mo	inth Day	Year
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